PATENT COOPERATION TREATY

	HORITY		175/
			PCT Prion
		WR INTERNAT	ITTEN OPINION OF THE IONAL SEARCHING AUTHORITY
			(PCT Rule 43bis.1)
Applicant's or agent's file reference		Date of mailing (day month year)	
		FOR FURTHER ACTION	
P2003,0197WO			See paragraph 2 below
nternational application No.	International filing date	day month year)	Priority date (day month year)
PCT/DE2004/000670	31.03.2004		31.03.2003
Applicant OSRAM OPTO SEMICO	NDUCTORS GMBH		
Box No. I But Box No. II Pri	ions relating to the following iten as of the opinion ority n-establishment of opinion with r		ntive step and industrial applicability
Box No. IV Box No. V Box No. VI Box No. VII Box No. VIII Co Box No. VIII Co Box No. VIII Co Box No. VIII Co Turther Action If a demand for internation International Preliminary E than this one to be the IPE this International Searching If this opinion is, as provic written reply together, wh PCT/ISA/220 or before the For further options, see For	ek of unity of invention asoned statement under Rule 43th plicability; citations and explanation and explanation at a citation defects in the international actain observations on the international preliminary examination is samining Authority ("IPEA") exc A and the chosen IPEA has notify Authority will not be so consider Authority will not be so considered above, considered to be a writer appropriate, with amendment expiration of 22 months from the property of the property	is. I(a)(i) with regard to the supporting such a application innal application made, this opinion cept that this does not jed the International feed.	o novelty, inventive step or industrial tatement will be considered to be a written opinion of the apply where the applicant chooses an Authority other dureau under Rule 66.1 bis(b) that written opinions of the applicant is invited to submit to the IPEA the applicant is invited to submit to the IPEA thought a months from the date of mailing of Formation of 3 months from the date of mailing of Formation.
Box No. IV Box No. V Box No. VI Box No. VII Box No. VII Co Box No. VIII Co Box No. VIII Co Box No. VIII Co thernational Preliminary E than this one to be the IPE this International Searching If this opinion is, as provic written reply together, wh PCT/ISA/220 or before the	ek of unity of invention asoned statement under Rule 43th plicability; citations and explanation and explanation at a citation defects in the international actain observations on the international preliminary examination is samining Authority ("IPEA") exc A and the chosen IPEA has notify Authority will not be so consider Authority will not be so considered above, considered to be a writer appropriate, with amendment expiration of 22 months from the property of the property	is. I(a)(i) with regard to the supporting such a application innal application made, this opinion cept that this does not jed the International feed.	o novelty, inventive step or industrial tatement will be considered to be a written opinion of th apply where the applicant chooses an Authority othe dureau under Rule 66.1bis(b) that written opinions of the applicant is invited to submit to the IPEA the applicant is invited to submit to the IPEA thought a months from the date of mailing of For
Box No. IV Box No. V Box No. VI Box No. VII Box No. VIII Co Box No. VIII Co Box No. VIII Co PURTHER ACTION If a demand for international Preliminary E than this one to be the IPE this International Searching If this opinion is, as provide written reply together, with PCT/ISA/220 or before the For further options, see For 3. For further details, see note	ek of unity of invention asoned statement under Rule 43th plicability; citations and explanation and explanation and explanation defects in the international artain observations on the international preliminary examination is samining Authority ("IPEA") exc. A and the chosen IPEA has notify Authority will not be so consider Authority will not be so considered above, considered to be a writer appropriate, with amendment expiration of 22 months from the tem PCT/ISA/220.	is. I(a)(i) with regard toons supporting such a application ional application made, this opinion cept that this does not jed the International feed, intent opinion of the II its, before the expirational priority date, whiche	o novelty, inventive step or industrial tatement will be considered to be a written opinion of the apply where the applicant chooses an Authority other dureau under Rule 66.1 bis(b) that written opinions of the applicant is invited to submit to the IPEA the applicant is invited to submit to the IPEA then of 3 months from the date of mailing of Forever expires later.
Box No. IV Box No. V Box No. VI Box No. VII Box No. VIII Co Box No. VIII Co Box No. VIII Co Box No. VIII Co Turther Action If a demand for internation International Preliminary E than this one to be the IPE this International Searching If this opinion is, as provic written reply together, wh PCT/ISA/220 or before the For further options, see For	ek of unity of invention asoned statement under Rule 43th plicability; citations and explanation and explanation and explanation defects in the international artain observations on the international preliminary examination is samining Authority ("IPEA") exc. A and the chosen IPEA has notify Authority will not be so consider Authority will not be so considered above, considered to be a writer appropriate, with amendment expiration of 22 months from the tem PCT/ISA/220.	is. I(a)(i) with regard to the supporting such a application innal application made, this opinion cept that this does not jed the International feed.	o novelty, inventive step or industrial tatement will be considered to be a written opinion of the apply where the applicant chooses an Authority other dureau under Rule 66.1 bis(b) that written opinions of the applicant is invited to submit to the 1PEA the applicant is invited to submit to the 1PEA tion of 3 months from the date of mailing of Forever expires later.

16-MAR-2006 09:50

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/DE2004/000670

Box No		Basis of this opinion
1. V	With filed	regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under
	•	Rule 12,3 and 23,1(b)).
2.	Wit! inve	n regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed action, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
1	b.	format of material
1		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	A	additional comments:
}		•
-		
-		
1		
1		
1		
1		
ı		

International application No.

PCT/DE2004/000670

Box	No. 11	Priority						
1.	⊠т		nent has not yet been f			Land 66 7/2 \		
	2		her application whose					ì
		translation of the	he earlier application	whose priority has be	een claimed (Rule -	13 <i>his.</i> 1 and 66.7(b))). 	and actualished on
	th	e assumption that th	not been possible to co he relevant date in the	claimed priority date	e.			
2.	ر با	This opinion has be (Rules 43 <i>his.</i> 1 and 6 relevant date.	een established as if no 64.1). Thus for the pu	o priority had been or poses of this opinion	claimed duc to the m, the international	fact that the prior I filing date indica	rity claim has ated above is e	heen found invalid onsidered to be the
3.	Additi	onal observations, i	f necessary:					
ļ			•					
	•		,					
\								
\								
						-		
1						•		
1								
- [
-								
								•
1								
	•							
							•	

International application No.

PCT/DE2004/000670 /

	INTERNATIONAL SEARCHING AUTHORITY	101,000
Box No. IV	Luck of unity of invention	
i. In re	esponse to the invitation (Form PCT/ISA-206) to pay additional fees the applicant	has:
	paid additional fees	
	paid additional fees under protest	
	not paid additional fees	,
2. This add	is Authority found that the requirement of unity of invention is not complied will litional Fees.	th and chose not to invite the applicant to pay
3. This Autl	hority considers that the requirement of unity of invention in accordance with Rule	es (3.1, 13.2 and 13.3 is
	applied with	,
No.	t complied with for the following reasons:	
Se	e supplemental sheet	
		•
	·	
	•	
<u> </u>		
4. Cons	equently, this opinion has been established in respect of the following parts of the	international application:
	uli parts	
	the parts relating to claims Nos.	

International application No. PCT/DE2004/000670

Box No. V		Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
i.	Statement	-				
	Novelty	(N)	Claims	3,5-7,11,12,15,17-19,23,24	YES	
			Claims	1.2.4.8-10.13.14.16.20-22	NO	
	Inventiv	re step (IS)	Claims	3,5-7.11.12.15.17-19.23.24	YES	
			Claims	1.2.4.8-10.13.14.16.20-22	_ NO	
	ในต้นสนา	ial applicability (IA)	Claims	1-24	_ YES	
			Claims		_ NO	

Citations and explanations:

- The present report makes reference to the following documents:
 - US 5 592 193 A (CHEN HSING-YAU), 7 January 1997 (07-01-1997) m:
 - US 2001/004317 AI (REITHMEIER MICHAEL), 21 June 2001 (21-06-2001) DZ:
 - WO 02/42809 A (TILANSVISION INC), 30 May 2002 (30-05-2002) D3:
 - PATENT ABSTRACTS OF JAPAN. Vol. 0145. No. 77 (P-1146), 21 December 1990 (21-12-1990) &: JP 2 247687 A 1)4:
 - (MATSUSHITA ELECTRIC WORKS LTD), 3 October 1990 (03-10-1990)
 - GB 2 376 287 A (RUSSELL MICHELLE EVELYN: RUSSELL MICHAEL GULVIN (GB)). 11 December 2002 (11-12-D5: 2002)

INDEPENDENT CLAIM I

- The present application does not fulfill the requirements of PCT Article 33(1) because the subject matter of claim 1 is not novel within the meaning of PCT Article 33(2).
 - D1 (the references placed in parentheses refer to this document) discloses:

A method for the production of an illumination device having a polygonal illumination surface, characterized in that said illumination surface is composed of a plurality of individual polygonal illumination module components (column 4, lines 30-34 & 47-54; figure 3).

- Documents D2-D5 also disclose the subject matter of claim 1.
- INDEPENDENT CLAIM 13
- The present application does not fulfill the requirements of PCT Article 33(1) because the subject matter of claim 13 is not novel within the meaning of PCT Article 33(2).
 - D1 (the references placed in parentheses refer to this document) discloses:

An illumination device having a polygonal illumination surface, charac-terized in that said illumination surface is composed of a plurality of individual polygonal illumination module components (column 4, lines 30-34 & 47-54; figure

- Documents D2-D5 also disclose the subject matter of claim 13.
- DEPENDENT CLAIMS 2, 4, 8-10, 14, 16, 20-22

Claims 2, 4, 8-10, 14, 16, 20-22 do not contain any features which, in combination with the features of any claim to which they refer back, would meet the require-ments of PCT Article 33(1) and 33(2) for novelty:

Claims 2 and 14

The additional features are known from D1. D2, D3 and D5.

Claims 4, 8, 16 and 20

The additional features are known from D3 and D5.

<u> Claims 9. 10. 21 and 22</u>

The additional features are known from D4.

DEPENDENT CLAIMS 3, 5-7, 11, 12, 15, 17-19, 23, 24

Claims 3 and 1

Claims 3 and 15 appear to fulfill the requirements of PCT Article 33(1) since their combination of features is acither known from the available prior art, documents D1-D5, nor suggested by same. The technical problem addressed is that of realizing backlighting

International application No.

PCT/DE2004/000670 >

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

for a plurality of display sizes.

Claims 5-7 and 17-19

Claims 5 and 6 can only be interpreted as being dependent upon claim 3 (in the case of claim 5, possibly via claim 4 and in the case of claim 6, possibly via claim 4 and/or 5) because the feature of the base assembly is not disclosed until claim 3. Likewise, claims 17 and 18 can only be interpreted as being dependent upon claim 15 (in the case of claim 17, possibly via claim 16, and in the case of claim 18, possibly via claim 16 and/or 17).

When interpreted in this way, claims 5-7 and 17-19 appear to fulfill the requirements of PCT Article 33(1).

Claims 11 and 23

Claim 11 can only be interpreted as being dependent upon claim 10 via claim 4 and/or claim 8 since both features of the optical input coupling member and the luminaire had not been previously disclosed. Likewise, claim 23 can only be interpreted as being dependent upon claim 22 via claim 16 and/or claim 20. The technical problem addressed is: insufficient homogeneous illumination resulting from uneven illumination surfaces due to gaps between illumination modules.

When considered in this way, claims 11 and 23 appear to fulfill the requirements of PCT Article 33(1) since their feature combinations are neither known from the available prior art, documents D1-D5, nor suggested by same.

Claims 12 and 24

Similarly, claims 12 and 24 can only be interpreted as being dependent on claims 11 and 23 since the feature of the riser is not disclosed until claims 11 and 23.

When interpreted in this way, claims 12 and 24 would also appear to fulfill the requirements of PCT Article 33(1).

International application No.

PCT/DE2004/000670.

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

Box IV

The International Search Authority has determined that this international application contains multiple inventions; as follows:

Claims: 3, 5-7, 15, 17-19 Method for the production of an illumination device and an illumination device wherein the illumination surface is composed of a plurality of individual polygonal illumination module components, and whereby the illumination modules are relected from a base assembly of different-sized illumination modules,

Claims: 11, 12, 23, 24 Method for the production of an illumination device and an illumination device wherein the thickness of the luminaire adjacent the optical input coupling member is greater than the thickness of the optical input coupling member and a riser is configured such that the illumination module overlaps upon positioning to an illumination surface such that the optical input coupling member is covered by an adjacent illumination module.

The search yielded the following prior art relevant to the assessment of unity of invention:

D1: US 5 592 193 A (CHEN HSING-YAO), 7 January 1997 (07-01-1997)

D3: WO 02/42809 A (TRANSVISION INC), 30 May 2002 (30-05-2002)

D4: PATENT ABSTRACTS OF JAPAN. Vol. 0145, No. 77 (P-1146), 21 December 1990 (21-12-1990) &: JP 2 247687 A (MATSUSHITA ELECTRIC WORKS LTD), 3 October 1990 (03-10-1990)

2.1 Document D1 (the references placed in purentheses refer to this document) discloses the subject matter of claims 1 and 13; Method for the production of un illumination device and an illumination device comprising a polygonal illumination surface. characterized in that said illumination surface is composed of a plurality of individual polygonal illumination module components (column 4, lines 30-34 & 47-54; figure 3).

D1 further discloses the features of claims 2 and 14. Moreover, the subject matter of claims 2, 4, 8, 14, 16 and 20 is known from D3 while the subject matter of claims 9, 10, 21 and 22 is known from D4.

A comparison of the present groups of claims with the cited documents reveals that the following features have contributed to the prior art and can thus be regarded as special technical features within the meaning of PCT Rule 13.2;

Group I:

The illumination modules are selected from a bose assembly of differently sized illumination modules (claims

3 and 15).

Group II:

The thickness of the luminaire adjacent the optical input-coupling member is greater than the thickness of the optical input coupling member and a riser is configured such that the illumination module overlaps upon positioning to an illumination surface such that the optical input-coupling member is covered by an adjacent illumination module (claims 11 and 23).

The problems addressed by the special technical features can be regarded as being:

Group I:

Realizing a backlighting for a plurality of display sizes.

Group II:

hisufficient homogeneous illumination resulting from uneven illumination surfaces due to gaps between

illumination modules.

These problems differ from one another.

2.4 Thus, with regard to both the special technical features and the problem of interest between the cited groups of claims, there is no unity of invention within the meaning of PCT Rule 13.1 and 13.2.